

DRESDEN DRIVE INTERSECTION IMPROVEMENT STUDY UPDATE

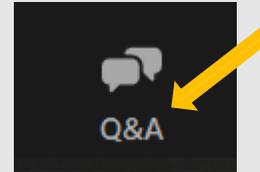


New Data and Assumptions
March 3, 2022

Welcome!

Today's Agenda

- Study Overview
- New Data
- Assumptions and Process
- Next Steps
- Q&A



Zoom Controls

Submit questions using Q&A icon at the bottom of your screen; we will address these at the end of the presentation.

You can also raise your hand in Zoom to let us know you have a question.

Please note, this meeting is being recorded.

Study Overview

Study Overview

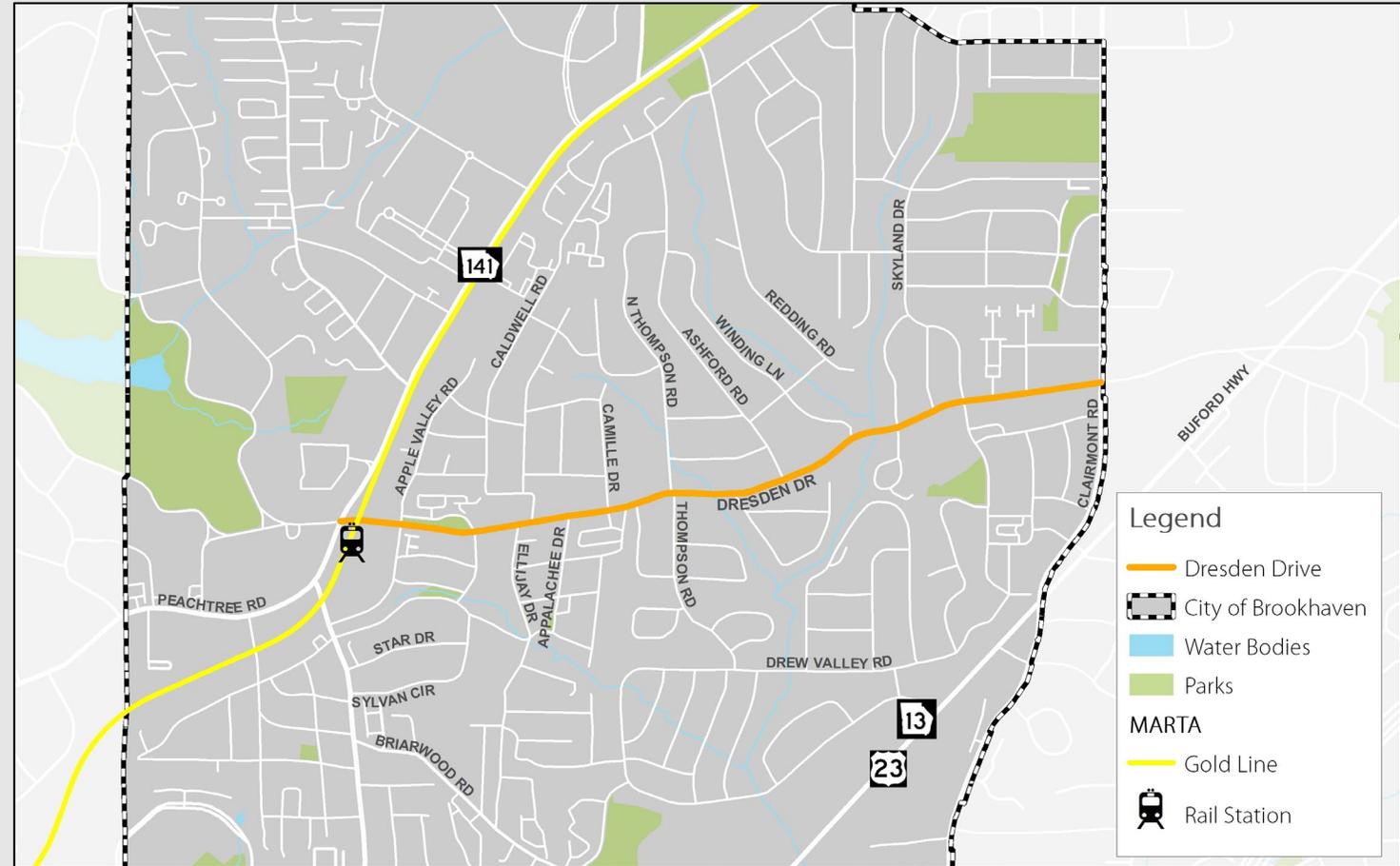
- In Spring 2021, the City of Brookhaven initiated a study to analyze operations and safety for key intersections along Dresden Drive: Apple Valley Road, Ellijay Drive, Caldwell Road, and Clairmont Road. The analysis was based on approved and planned developments in the area.
- This update to that study **expands the analysis area** to include additional intersections and roadway segments within Brookhaven Fields and Ashford Park neighborhoods, based on community feedback received during Fall 2021.
- The update also includes an analysis of impacts to the expanded study area and roadways due to traffic generated by **all potential and planned** developments along the Dresden Drive corridor.

Study Update Timeline

	JAN	FEB	MAR	APR	MAY	JUN
Project Management						
Traffic Study						
New Counts/Process Data						
Analyze Data						
Traffic Study			Draft	Revise	Finalize	
Public Engagement						
Mtg #1 – New Data & Assumptions						
Mtg #2 – Draft Recommendations						
Mayor & Council Presentation						
Recommendations and Final Report						
Draft Recommendations			Draft			
Revised Draft Recommendations & Project List				Draft	Revised	
Draft & Final Report					Draft	Final

Revised Approach

- Expand area of analysis
- Obtain new traffic counts
- Revise traffic study examining three future growth scenarios and including all potential and planned developments
- Identify increases in traffic volumes at all study locations and conduct capacity analysis at key intersections
- Develop recommendations and considerations based on revised analysis
- Hold two additional public meetings

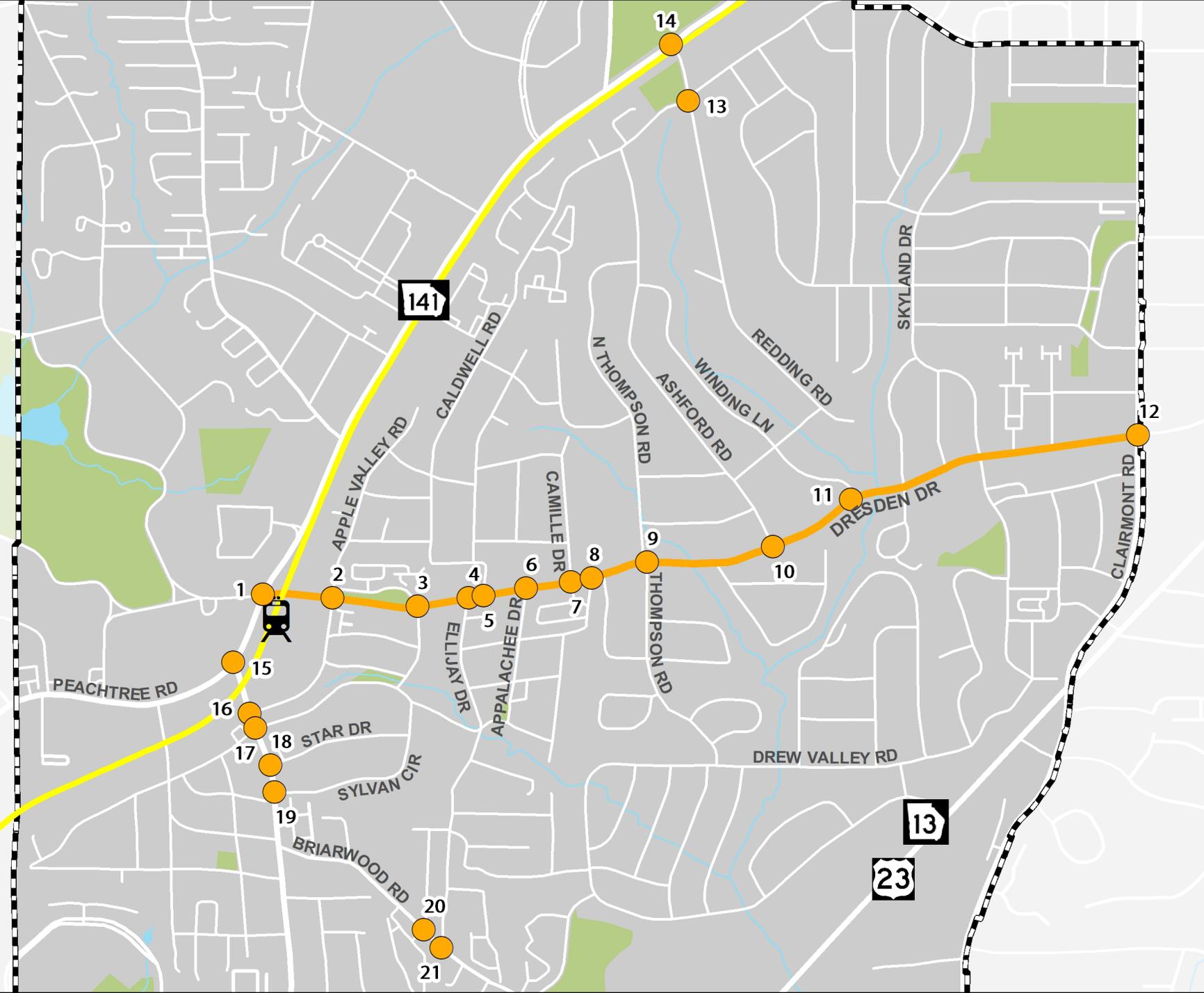


New Data

New Data

- Expanded the study to look at additional intersections and roadway segments in the neighborhoods
- Collected new traffic counts at 21 intersections and 22 roadway segments
 - New turning movement counts at all study intersections
 - New 24-hour classification and speed counts at all study roadway segments

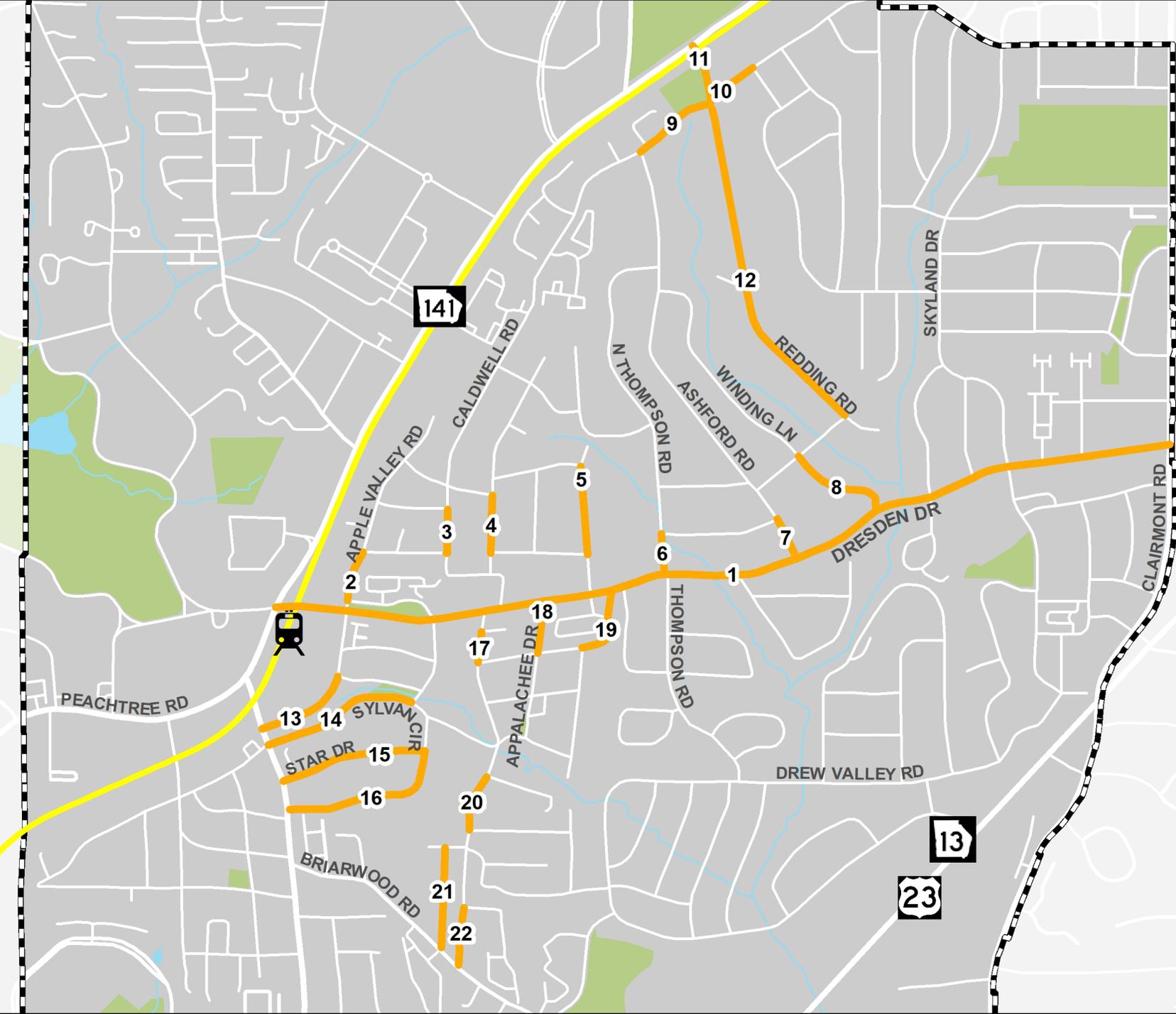
Study Intersections



1. Dresden Dr at Peachtree Rd
2. Dresden Dr at Apple Valley Rd
3. Dresden Dr at Fernwood Cir
4. Dresden Dr at Ellijay Dr
5. Dresden Dr at Caldwell Rd
6. Dresden Dr at Appalachee Dr
7. Dresden Dr at Camille Dr
8. Dresden Dr at Conasauga Ave
9. Dresden Dr at North Thompson Rd
10. Dresden Dr at Ashford Rd
11. Dresden Dr at Winding Ln
12. Dresden Dr at Clairmont Rd
13. Redding Rd at Caldwell Rd
14. Redding Rd at Peachtree Rd
15. North Druid Hills Rd at Peachtree Rd
16. North Druid Hills Rd at Apple Valley Rd
17. North Druid Hills Rd at Sylvan Cir (N)
18. North Druid Hills Rd at Star Dr
19. North Druid Hills Rd at Sylvan Cir (S)
20. Briarwood Rd at Briarwood Hills Dr
21. Briarwood Rd at Coosawattee Dr

Study Roadway Segments

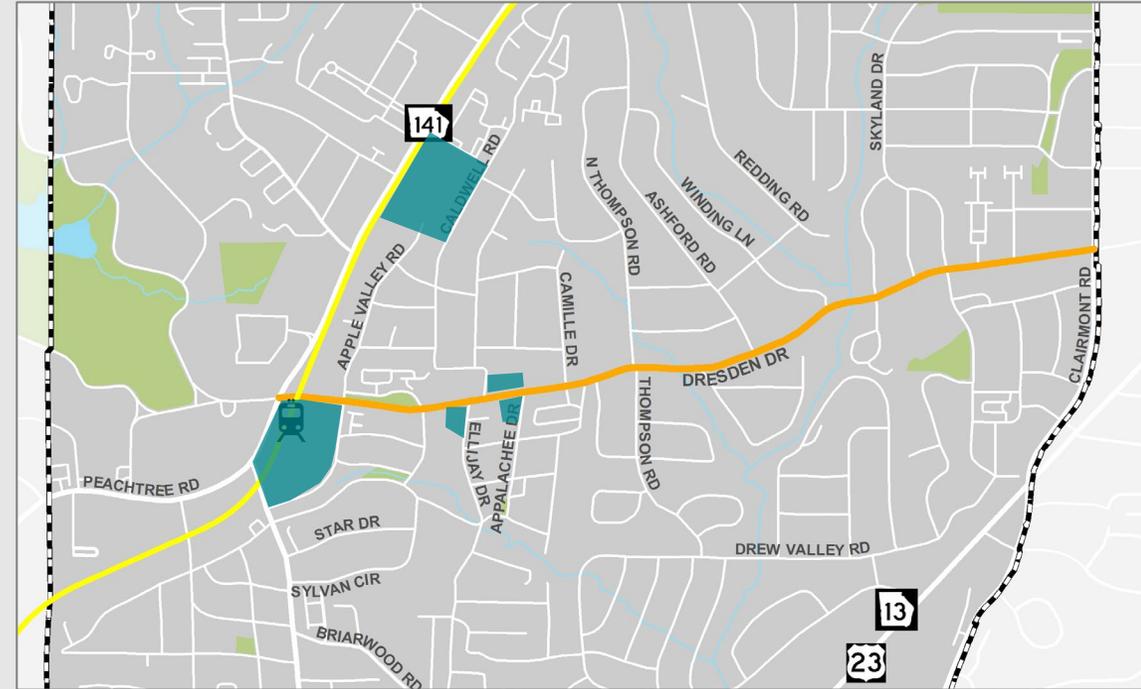
1. Dresden Dr btw Peachtree Rd & Clairmont Rd
2. Apple Valley Rd btw Parkside Dr & Sunland Dr
3. Caldwell Rd btw Sunland Dr & Oaklawn Ave
4. Green Meadows Ln btw Wilford Dr & East Osborne Rd
5. Camille Dr btw Wilford Dr & E Osborne Rd
6. North Thompson Rd btw Dresden Dr & Trentwood Pl
7. Ashford Rd btw Dresden Dr & Trentwood Pl
8. Winding Ln btw Dresden Dr & Redding Way
9. Caldwell Rd btw Ashford Rd & Redding Rd
10. Caldwell Rd btw Cynthia Dr & Redding Rd
11. Redding Rd btw Caldwell Rd & Peachtree Rd
12. Redding Rd btw Caldwell Rd & Redding Way
13. Apple Valley Rd btw North Druid Hills Rd & Fernwood Cir
14. Sylvan Cir (N) btw North Druid Hills Rd & Fernwood Cir
15. Star Dr btw North Druid Hills Rd & Sylvan Cir
16. Sylvan Cir (S) btw North Druid Hills Rd & Star Dr
17. Ellijay Dr btw Towne Estates Dr & Canoochee Dr
18. Appalachian Dr btw Dresden Dr & Canoochee Dr
19. Conasauga Ave btw Dresden Dr & Oostanaula Dr
20. Coosawattee Dr btw Tugaloo Dr & Noel Dr
21. Briarwood Hills Dr btw Briarwood Rd & Telford Dr
22. Coosawattee Dr btw Briarwood Rd & Wayside Dr



Assumptions & Process

Revised Development Assumptions

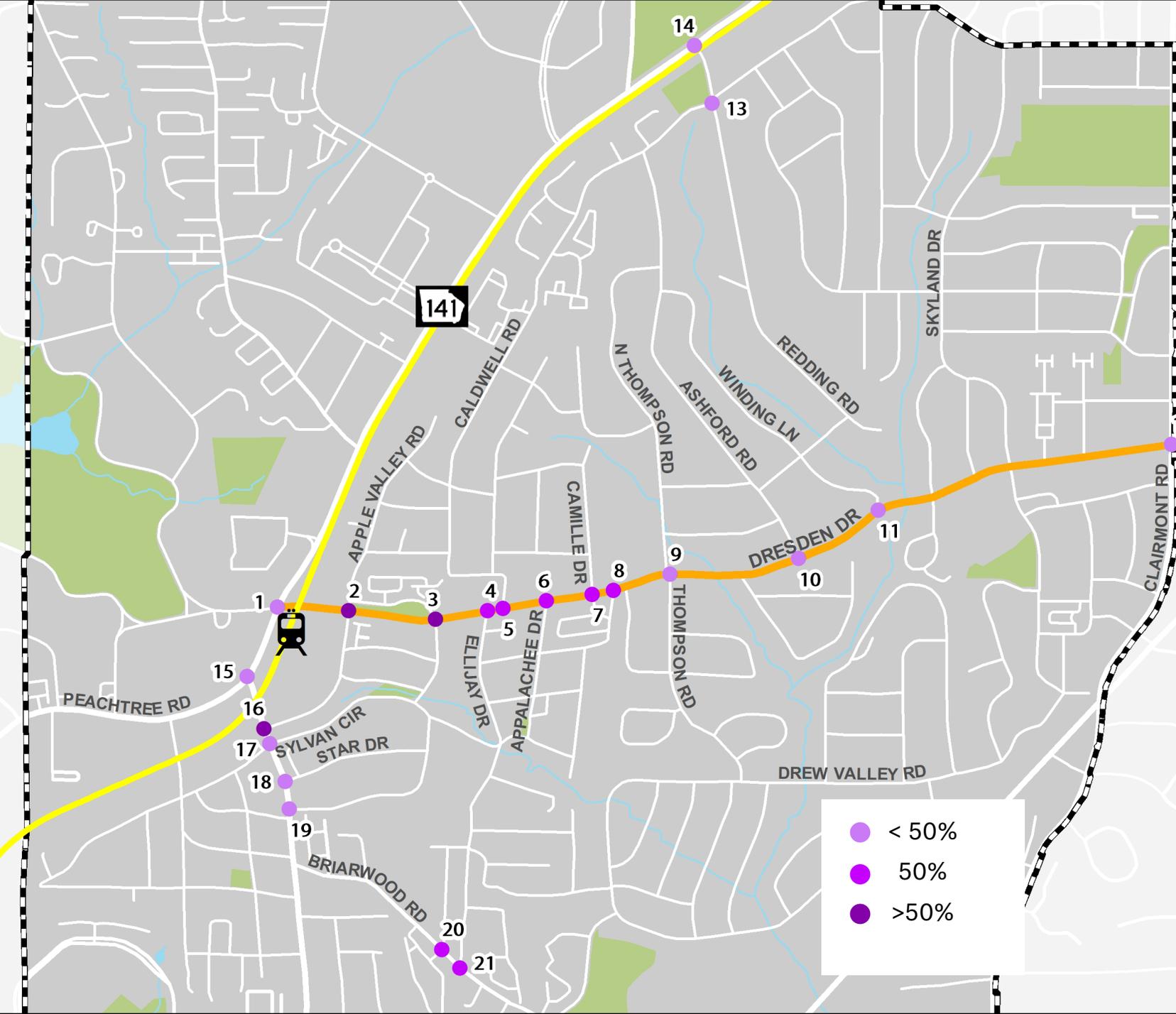
- Include all potential and planned future development along Dresden Drive corridor
 - MARTA property
 - PR-3 zoned properties at north end of Apple Valley Road
 - Four PR-2 zoned properties along Dresden Drive (a.k.a. Terwilliger-Pappas)
 - Dresden Village
 - University Baptist Church
- Traffic generated by the above listed developments will be added to all growth scenario traffic projections



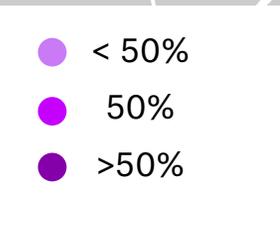
Analysis Methodology

- Future traffic volumes developed based on recent historical growth, population projections, future traffic projections from regional travel demand model, plus traffic generated by future development
- Nine combinations – three growth scenarios each at three future years
 - Three Growth Scenarios: low, medium, high
 - Three future analysis years: 2027, 2037, and 2047
- Identify increases in traffic volumes at all intersections
- Identify increases in traffic volumes on all study roadway segments
- Level of service and delay at key intersections (Peachtree Rd, Apple Valley Rd, Ellijay Dr, Caldwell Rd, Clairmont Rd)

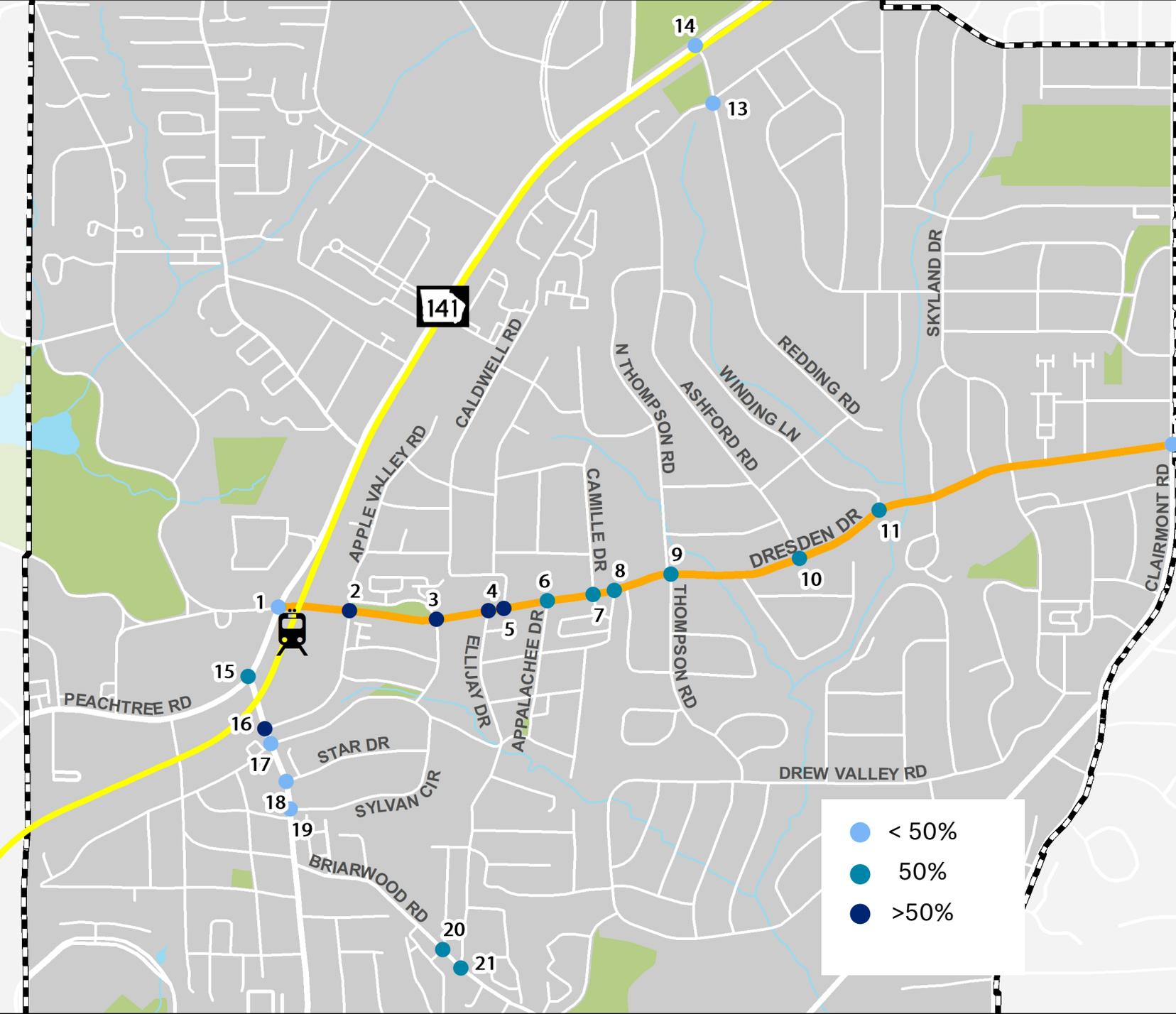
Traffic Increase - AM Medium Growth 2047



ID	Intersection Name	% Increase Vol.
1	Dresden Dr @ Peachtree Rd	35%
2	Dresden Dr @ Apple Valley Rd	60%
3	Dresden Dr @ Fernwood Cir	55%
4	Dresden Dr @ Ellijay Dr	50%
5	Dresden Dr @ Caldwell Rd	50%
6	Dresden Dr @ Appalachee Dr	50%
7	Dresden Dr @ Camille Dr	50%
8	Dresden Dr @ Conasauga Ave	50%
9	Dresden Dr @ North Thompson Rd	45%
10	Dresden Dr @ Ashford Rd	45%
11	Dresden Dr @ Winding Ln	45%
12	Dresden Dr @ Clairmont Rd	30%
13	Redding Rd @ Caldwell Rd	30%
14	Redding Rd @ Peachtree Rd	35%
15	North Druid Hills Rd @ Peachtree Rd	45%
16	North Druid Hills Rd @ Apple Valley Rd	55%
17	North Druid Hills Rd @ Sylvan Cir (N)	45%
18	North Druid Hills Rd @ Star Dr	45%
19	North Druid Hills Rd @ Sylvan Cir (S)	45%
20	Briarwood Rd @ Briarwood Hills Dr	50%
21	Briarwood Rd @ Coosawatee Dr	50%

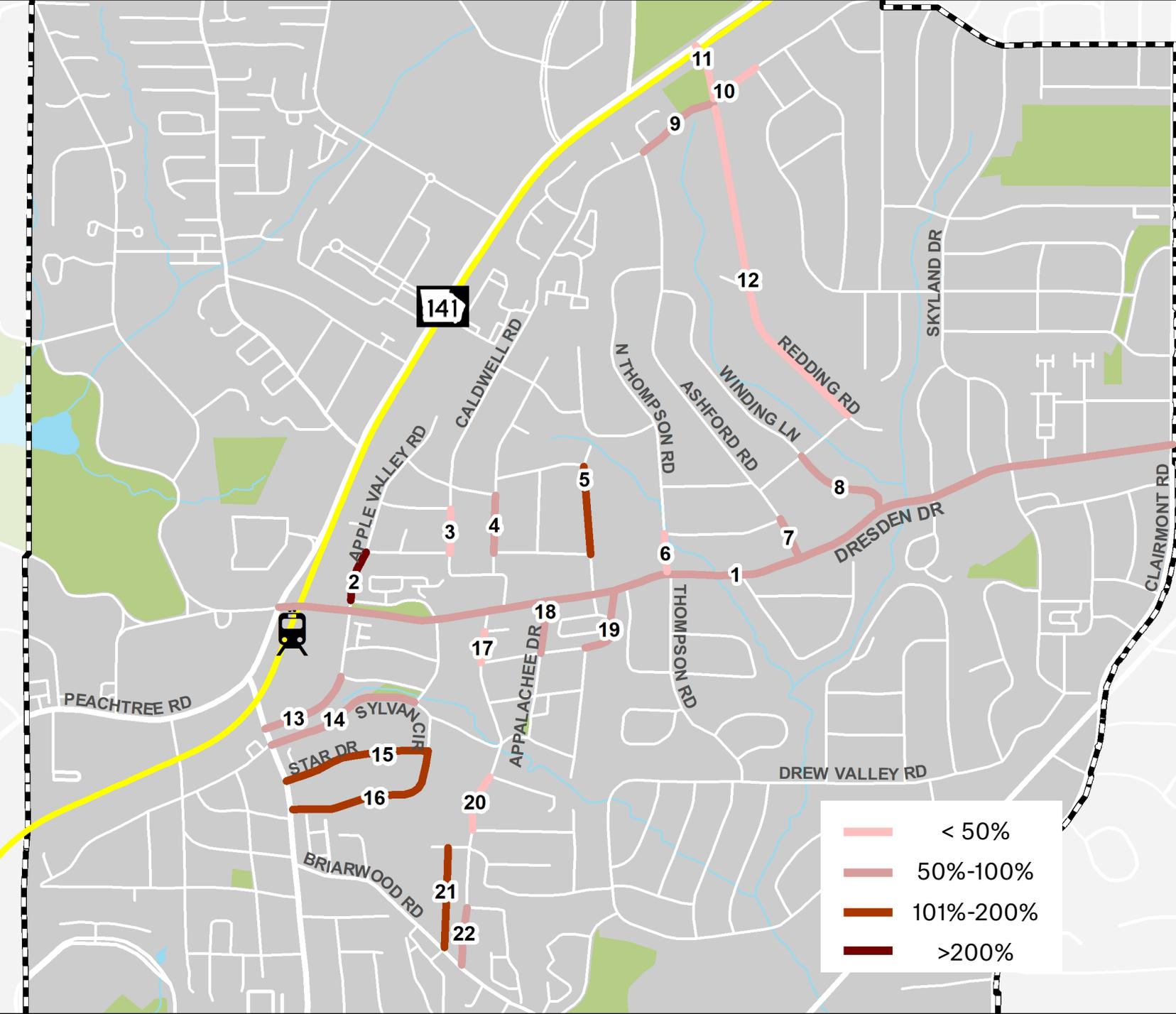


Traffic Increase - PM Medium Growth 2047



ID	Intersection Name	% Increase Vol.
1	Dresden Dr @ Peachtree Rd	45%
2	Dresden Dr @ Apple Valley Rd	85%
3	Dresden Dr @ Fernwood Cir	75%
4	Dresden Dr @ Ellijay Dr	60%
5	Dresden Dr @ Caldwell Rd	60%
6	Dresden Dr @ Appalachee Dr	50%
7	Dresden Dr @ Camille Dr	50%
8	Dresden Dr @ Conasauga Ave	50%
9	Dresden Dr @ North Thompson Rd	50%
10	Dresden Dr @ Ashford Rd	50%
11	Dresden Dr @ Winding Ln	50%
12	Dresden Dr @ Clairmont Rd	30%
13	Redding Rd @ Caldwell Rd	35%
14	Redding Rd @ Peachtree Rd	35%
15	North Druid Hills Rd @ Peachtree Rd	50%
16	North Druid Hills Rd @ Apple Valley Rd	55%
17	North Druid Hills Rd @ Sylvan Cir (N)	45%
18	North Druid Hills Rd @ Star Dr	45%
19	North Druid Hills Rd @ Sylvan Cir (S)	45%
20	Briarwood Rd @ Briarwood Hills Dr	50%
21	Briarwood Rd @ Coosawattee Dr	50%

Traffic Increase - Daily Medium Growth 2047

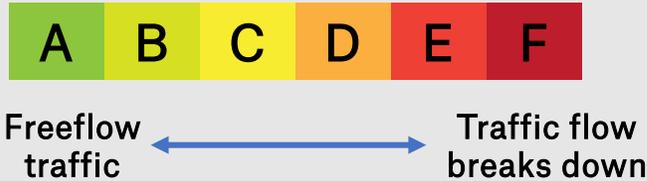


ID	Intersection Name	% Increase Vol.
1	Dresden Dr, east of Ashford Rd NE	55%
2	Apple Valley Rd NE, south of Sunland Dr NE	235%
3	Caldwell Rd NE, south of Oaklawn Ave NE	35%
4	Green Meadows Ln NE, south of E Osborne Rd NE	70%
5	Camille Dr NE, north of Wilford Dr NE	105%
6	N Thompson Rd NE, north of Trentwood PI NE	45%
7	Ashford Rd NE, south of Trentwood PI NE	60%
8	Winding Ln NE, west of Dresden Dr	55%
9	Caldwell Rd NE, west of Redding Rd NE	55%
10	Caldwell Rd NE, west of Cynthia Dr NE	25%
11	Redding Rd NE, north of Caldwell Rd NE	40%
12	Redding Rd NE, north of Redding Way NE	35%
13	Apple Valley Rd, south of Fernwood Cir NE	105%
14	Sylvan Cir NE, east of Fernwood Cir NE	135%
15	Star Dr, east of N Druid Hills Rd	80%
16	Sylvan Cir NE, east of Brissett Ln	90%
17	Ellijay Dr NE, north of Canoochee Dr NE	40%
18	Appalachee Dr NE, south of Dresden Dr	60%
19	Conasauga Ave NE, south of Dresden Dr	65%
20	Coosawattee Dr NE, north of Noel Dr NE	40%
21	Briarwood Hills Dr NE, north of Briarwood Rd NE	135%
22	Coosawattee Dr NE, north of Briarwood Rd NE	55%

Future Year (2047) & Medium Growth – Without Improvements

	Intersection	Future (2047) – Medium Growth	
		AM LOS Delay (S)	PM LOS Delay (S)
1	Peachtree Rd	F (>100)	F (>100)
2	Apple Valley Rd	D (39.0)	F (>100)
3	Ellijay Dr	A (6.6)	B (14.2)
4	Caldwell Rd	B (11.3)	A (11.0)
5	Clairmont Rd	D (42.9)	D (52.0)

Level of Service (LOS) is a measure of the amount of delay that a traveler experiences at an intersection.



Next Steps

Types of Recommendations

- Recommended improvements based on most likely growth scenario
 - Intersection improvements at key intersections by mode of travel (*i.e., driving, walking, and biking*)
 - Intersection turn restrictions
 - Roadway access restrictions (e.g., cul-de-sacs)
 - One-way or two-way conversions
- Considerations associated with the other two, less likely growth scenarios
- Considerations for providing bicycle facilities along Dresden Drive, including trade-offs related to narrowing lanes and removal of on-street parking
- Considerations for traffic impact analyses for future potential development proposals

Note: Given that the City of Brookhaven has committed to updating the current Bicycle, Pedestrian and Trail Plan in the near future, the scope for this study does not include a corridor-wide assessment of bicycle facilities or bicycle needs along Dresden Drive. Therefore, this study will develop considerations for bicycle facilities and not recommendations for implementation.

Deliverables

- Updated Traffic Study Technical Memo
 - Details on the data, methodology, and recommendations
 - Increase in traffic volumes at all study intersections and roadways
 - Capacity analysis for key intersections (Peachtree Rd, Apple Valley Rd, Ellijay Dr, Caldwell Rd, Clairmont Rd)
- Final Study Report
 - Summary of the process, existing conditions, and traffic analysis
 - Key findings from analysis
 - Improvements at study intersections and roadway segments
 - Conceptual engineering drawings at key locations with cost estimates
 1. Dresden Dr at Apple Valley Rd
 2. Dresden Dr at Ellijay Dr
 3. Dresden Dr at Caldwell Rd
 4. Dresden Dr at Clairmont Rd

Next Steps

- Draft traffic study memo, recommendations – on 03/31/22
 - Publish to project website
- **Public meeting – on 04/14/22**
 - **Present draft recommendations**
- Revised draft traffic study memo, recommendations – week of 05/16/22
 - Publish to project website
- **Mayor and Council Presentation – 05/24/22**
 - **Present draft report and recommendations**
- Final Traffic Study Memo, Study Report – week of 06/13/22
 - Publish to project website

Questions?

Project Contacts

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<https://www.brookhavenga.gov/publicworks/page/dresden-drive-intersection-improvement-study>

**Submit your comments by Monday
March 14, 2022**

